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JAPANESE TECHNOLOGY

Compiled by Hisako Halasz

TB 89-2

April 1989

SCOPE: This is a guide to English-language sources providing information on recent technological developments in Japan. Historical sources are not included. It complements and partially updates Japanese Science and Technology (TB 84-3). Unlike TB 84-3, however, science is covered here only as it is applied in technical areas. Not intended to be a comprehensive bibliography, this guide is designed--as the name of the series implies--to put the reader "on target."

INTRODUCTORY TEXTS

Bhasavanich, Daun. An American in Tokyo: jumping to the Japanese best. In Engineering excellence, cultural and organizational factors. Donald Christiansen, editor. New York, IEEE Press, c1987. p. 185-202. TA157.E613 1987*

Cutler, Robert S. Impressions, observations and comments on science and technology in Japan. Tokyo, The University of Tokyo, May 1987. 14 p. PB87-235743**

Lynn, Leonard. Japanese research and technology policy. *Science*, v. 233, July 18, 1986: 1132, 1203. Q1.S5

SUBJECT HEADINGS+ used by the Library of Congress, under which books on Japanese technology that emphasize the geographic aspect can be located in most card, book, and online catalogs, include the following:

TECHNOLOGY--JAPAN (Highly relevant)

See also particular technical headings further subdivided by place, e.g., AUTOMATION--JAPAN; BIOTECHNOLOGY--JAPAN; ELECTRONICS--JAPAN; HIGH TECHNOLOGY--JAPAN; TELECOMMUNICATION--JAPAN

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+For works which are assigned subject headings that are not subdivided by country, yet include material of interest to those studying Japanese technology/engineering, no special subject heading search is feasible other than through topical subject headings. In such a case, the author's name or, often, the place of publication, e.g., Tokyo, may give some indication as to the national origin of the work.

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RESEARCH, INDUSTRIAL--JAPAN (Relevant)

See also technical topics further subdivided by RESEARCH--JAPAN, e.g.,
ENGINEERING--RESEARCH--JAPAN; INTEGRATED CIRCUITS--RESEARCH--JAPAN

TECHNOLOGICAL INNOVATIONS--JAPAN (Relevant)

See also specific technical and industry headings further subdivided by
JAPAN--TECHNOLOGICAL INNOVATIONS, e.g., AUTOMOBILES--JAPAN--
TECHNOLOGICAL INNOVATIONS; COMPUTER INDUSTRY--JAPAN--TECHNOLOGICAL
INNOVATIONS; HIGH TECHNOLOGY INDUSTRIES--JAPAN--TECHNOLOGICAL
INNOVATIONS

TECHNOLOGY AND STATE--JAPAN (Relevant)

See also specific technical and industry headings further subdivided by
GOVERNMENT POLICY--JAPAN, e.g., HIGH TECHNOLOGY INDUSTRIES--GOVERNMENT
POLICY--JAPAN; NUCLEAR ENERGY--GOVERNMENT POLICY--JAPAN; TECHNOLOGICAL
INNOVATIONS--GOVERNMENT POLICY--JAPAN

TECHNOLOGY TRANSFER--JAPAN (Relevant)

INDUSTRY AND STATE--JAPAN (Related)

JAPAN--INDUSTRIES (Related)

See also specific industry headings further subdivided by JAPAN, e.g.,
BIOTECHNOLOGY INDUSTRIES--JAPAN; HIGH TECHNOLOGY INDUSTRIES--JAPAN;
SEMICONDUCTOR INDUSTRY--JAPAN

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Applied Science & Technology Index (1913-) Z7913.I7* and on CD-ROM reader (10/83-)

See: Technology--Japan
Japan--Industries and Resources
Subject headings of interest; only major headings are subdivided by Japan

Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room

General Science Index (1978-) Z7401.G46*

See: Technology--Japan

Subject headings of interest; only major headings are subdivided by Japan

Japanese Technical Abstracts (1986-1988) T1.J38*

See: Subject headings of interest

Magazine Index (1980-) Available on LC computer terminals, COM or CD-ROM reader

See: Technology--Japan

Subject headings of interest subdivided by Japan

Readers' Guide to Periodical Literature (1900-) A13.R45

See: Japan (all the entries related to Japan are listed)

The following abstracting and indexing services, while containing substantial numbers of articles from Japan, do not indicate the geographical origin of a particular work in their subject indexes; exceptions are headings beginning with Japan or Japanese. However, the names of authors, organizations, and journals may indicate as to the national origin of the work.

Computer & Control Abstracts (1966-) QA76.C548*

Electrical & Electronics Abstracts (1898-) Z5833.E37*

Engineering Index (1884-) Z5851.E62*

INIS Atomindex (1970-) Z7144.N8I18*

International Aerospace Abstracts (1961-) TL500.I57*

Metals Abstracts (1968-) TN1.M5153*

Scientific and Technical Aerospace Reports (1963-) TL500.S35*

JOURNALS that often contain articles on Japanese technology include publications of professional societies, research institutes, universities, and manufacturing companies, as well as commercial journals. Examples in several categories are presented.

Company Publications

Fuji Electric Review TK1.F88

Fujitsu Scientific and Technical Journal TK1.F9

Hitachi Review T1.H55

NEC Research and Development TK1.N14

Nihon Kokan Kabushiki Kaisha. Technical Report: Overseas TS300.N56

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Newsletters

Ceramic Industry Japan uncataloged in N&CPR

Dempa Digest uncataloged in N&CPR

EDP Japan Report uncataloged in N&CPR

Japan High Tech Review uncataloged in N&CPR

Nikkei High Tech Report uncataloged in N&CPR

Publications by professional societies, research institutes, or educational institutions

Search under specific titles or, if the title is of a general nature, e.g., journal, bulletin, memoir, report, it may be under the name of the organization.

Review Journals

- Chemical Economy & Engineering Review: CEER TP1.C1152
Japan Annual Reviews in Electronics, Computers & Telecommunications
Amorphous Semiconductor Technologies & Devices TK7871.99.A45A47
Computer Science & Technologies QA75.5.C592
Optical Devices & Fibers TK5103.59.0673
Recent Magnetics for Electronics TK454.4.M3R43
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JEE, Journal of Electronic Engineering TK7800.J2
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- Corrosion Engineering TA418.74.B673
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Electronics and Communications in Japan (to 1985, TK7800.D413)
 Part 1. Communications TK5101.A1E47
 Part 2. Electronics TK7800.E438593
 Part 3. Fundamental Electronic Science This journal will become available in LC's general collections when processing has been completed.
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Government Reports Announcements & Index (1946-) Z7916.G78*

See: Technology--Japan

Subject headings of interest; only major headings are subdivided by Japan

Monthly Catalog of United States Government Publications (1895-)
Z1233.A18*

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SELECTED TECHNICAL REPORTS, sold by the National Technical Information Service, Springfield, Virginia 22161, include the following:

High technology ceramics in Japan. Prepared by the Committee on the Status of High-Technology in Japan, National Materials Advisory Board, National Research Council. Washington, National Academy Press, 1984. 69 p. (EDA/RED 84-44) Pamphlet box* and PB85-5029**
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Japan Information Center of Science and Technology (JICST)
Washington Office
1550 M St., N.W.
Washington, D.C. 20005
Telephone: (202) 872-6370, 872-6371

MIT-Japan Science and Technology Program Office
Massachusetts Institute of Technology, Room E53-447
Cambridge, Massachusetts 02139
Telephone: (617) 253-2449

North Carolina Japan Center
North Carolina State University
Raleigh, North Carolina 27695-8112
Telephone: (919) 737-3450

Office of Japanese Technical Literature
Office of the Under Secretary for Economic Affairs
U.S. Dept. of Commerce
Washington, D.C. 20230
Telephone: (202) 377-1288